

1. A method of detackifying an edge face of a roll of pressure sensitive adhesive tape, said method comprising:

a) contacting an edge face of the roll of tape with a composition comprising

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i) acrylate oligomer, and

ii) polyetheracrylate oligomer; and

b) curing said composition.

2. The method of claim 1, wherein said composition comprises

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a) from about 10% to about 40% acrylate oligomer; and

b) from about 50% to about 90% polyetheracrylate oligomer.

3. The method of claim 1, wherein said acrylate oligomer comprises polyurethane acrylate.

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4. The method of claim 1, wherein said polyetheracrylate comprises amine functionality.

5. The method of claim 1, wherein said composition further comprises monomer.

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6. The method of claim 5, wherein said monomer comprises an ethylenically unsaturated monomer.

7. The method of claim 5, wherein said monomer is selected from the group consisting of ethylene glycol diacrylate, propylene glycol diacrylate, trimethylolpropane triacrylate, 1,6-hexamethylenedioldiacrylate, pentaerythritol diacrylate, pentaerythritol triacrylate, pentaerythritol tetraacrylate, 1,12-dodecanedioldiacrylate and mixtures thereof.

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8. The method of claim 5, wherein said monomer is selected from the group consisting of lauryl acrylate, stearyl acrylate, isooctyl acrylate, acrylic acid, 2-ethylhexyl

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acrylate, nonyl acrylate, isobornyl acrylate, ethoxyethoxyethyl acrylate, N-vinyl caprolactam and N-vinyl-2-pyrrolidone, and ethoxylated and propoxylated monomers thereof, and mixtures thereof.

5           9.       The method of claim 1, wherein said composition further comprises a matting agent.

10           10.       The method of claim 9, wherein said matting agent comprises silica.

10           11.       The method of claim 1, wherein said composition further comprises silicone acrylate.

15           12.       The method of claim 1, wherein said composition further comprises a photoinitiator.

15           13.       The method of claim 12, wherein said photoinitiator is selected from the group consisting of  $\alpha$ -hydroxy ketones,  $\alpha$ -amino ketones, benzildialkyl ketals, acylphosphine oxides, benzophenones and combinations thereof.

20           14.       The method of claim 12, wherein said composition further comprises an amine synergist.

25           15.       The method of claim 1, wherein when a layer of said roll of tape is unwound from said roll, said coating remains adhered to the layer.

            16.       The method of claim 1, wherein said curing comprises exposing said composition to radiation selected from the group consisting of ultraviolet radiation, electron beam radiation, gamma radiation and combinations thereof.

30           17.       The method of claim 1, further comprising contacting a second edge face of said roll of tape with a coating composition and curing said composition.

18. The method of claim 1, further comprising substantially simultaneously contacting said first edge face of said roll of tape and a second edge face of said roll of tape with said coating composition.

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19. A roll of pressure sensitive adhesive tape comprising

a first nontacky edge face;

*opposing*  
a second edge face; and

a coating disposed on said first edge face, said coating comprising  
the reaction product of

a) acrylate oligomer;

b) polyetheracrylate oligomer; and

c) optionally monomer, photoinitiator or a combination

thereof.

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20. The roll of pressure sensitive adhesive tape of claim 19, wherein said composition comprises the reaction product of

a) from about 10% to about 40% acrylate oligomer, and

b) from about 50% to about 90% polyetheracrylate oligomer.

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21. The roll of pressure sensitive adhesive tape of claim 19, wherein said acrylate oligomer comprises polyurethane acrylate.

22. The roll of pressure sensitive adhesive tape of claim 19, wherein said polyetheracrylate comprises amine functionality.

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23. The roll of pressure sensitive adhesive tape of claim 19, wherein said composition comprises the reaction product of said acrylate oligomer, said polyether acrylate oligomer and said monomer.

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24. The roll of pressure sensitive adhesive tape of claim 23, wherein said monomer comprises an ethylenically unsaturated monomer.

5 25. The roll of pressure sensitive adhesive tape of claim 23, wherein said monomer is selected from the group consisting of ethylene glycol diacrylate, propylene glycol diacrylate, trimethylolpropane triacrylate, 1,6-hexamethylenedioldiacrylate, pentaerythritol diacrylate, pentaerythritol triacrylate, pentaerythritol tetraacrylate, 1,12-dodecanedioldiacrylate and mixtures thereof.

10 26. The roll of pressure sensitive adhesive tape of claim 23, wherein said monomer is selected from the group consisting of lauryl acrylate, stearyl acrylate, isooctyl acrylate, acrylic acid, 2-ethylhexyl acrylate, nonyl acrylate, isobornyl acrylate, ethoxyethoxyethyl acrylate, N-vinyl caprolactam and N-vinyl-2-pyrrolidone, and ethoxylated and propoxylated monomers thereof, and mixtures thereof.

15 27. The roll of pressure sensitive adhesive tape of claim 19, wherein said composition further comprises a matting agent.

20 28. The roll of pressure sensitive adhesive tape of claim 27, wherein said matting agent comprises silica.

29. The roll of pressure sensitive adhesive tape of claim 19, wherein said composition further comprises silicone acrylate.

25 30. The roll of pressure sensitive adhesive tape of claim 19, wherein said composition comprises the reaction product of said acrylate oligomer, said polyether acrylate oligomer and said photoinitiator.

30 31. The roll of pressure sensitive adhesive tape of claim 19, wherein said photoinitiator is selected from the group consisting of  $\alpha$ -hydroxy ketones,  $\alpha$ -amino

ketones, benzildialkyl ketals, acylphosphine oxides, benzophenones and combinations thereof.

32. The roll of pressure sensitive adhesive tape of claim 19, wherein when a layer of said roll of tape is unwound from said roll, said coating remains adhered to said layer.

33. The roll of pressure sensitive adhesive tape of claim 19, wherein said coating is crosslinked.

34. The roll of pressure sensitive adhesive tape of claim 19, wherein said second edge face is nontacky, said tape further comprising a coating disposed on said second edge face, said coating comprising the reaction product of

- a) acrylate oligomer;
- b) polyetheracrylate oligomer; and
- c) optionally monomer, photoinitiator or a combination thereof..

35. A roll of pressure sensitive adhesive tape comprising  
a first nontacky edge face;  
a second edge face; and  
a discontinuous coating disposed on said first edge face, said coating comprising the reaction product of

- a) acrylate oligomer;
- b) polyetheracrylate oligomer; and
- c) optionally monomer, photoinitiator or a combination thereof.

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